## CLAIMS

## WHAT IS CLAIMED IS:

1. An integrated vehicle information communication system that provides both vehicular and highway infrastructure information to both vehicle occupants, and a surrounding highway infrastructure, comprising:

an antenna for receiving and transmitting data from internal and external sources;
a sub-processor module for processing the data from the antenna and conveying the data
to further processing;

a user interface system for interfacing the data received from the sub-processor module with the vehicle occupants; and

a communications medium for conveying data throughout the system.

- 2. The system according to claim 1, wherein the antenna is located in the windshield of the vehicle.
- 3. The system according to claim 1, wherein the sub-processor module includes a communications sub-processor for processing the data from the antenna and integrating with a vehicle bus.
- 4. The system according to claim 1, wherein the external sources include at least one of a messaging module, an identification receiver module, an external communications module, a payment module, and a radio frequency front end module.
- 5. The system according to claim 1, wherein the user interface system includes at least one of a dashboard display module, a heads-up display module, a speech recognition system module, and an audio interface module.

- 6. The system according to claim 1, wherein the communications medium includes a wireless technology.
- 7. The system according to claim 6, wherein the wireless technology includes radio frequency technology.
- 8. The system according to claim 6, wherein the wireless technology includes Bluetooth technology.
- 9. The system according to claim 1, wherein the communications medium is hard-wired.
- 10. A method for providing two-way communications of highway infrastructure and vehicular status information between occupants of a vehicle and a highway infrastructure, said method comprising:

providing an antenna on a vehicle;
receiving data from external sources in the highway infrastructure;
transmitting the data to a communications sub-processor for internal processing;

processing the data using the communications sub-processor and conveying processed data to a vehicle data bus; and

communicating the processed data along the vehicle data bus via a wireless communications medium to a user interface system.

- 11. The method of claim 10, further comprising receiving data from internal sources.
- 12. The method of claim 10, further comprising transmitting the processed data to the highway infrastructure.
- 13. The method of claim 10, wherein the wireless communications medium includes radio frequency technology.

- 14. The method of claim 10, wherein the wireless communications medium includes Bluetooth technology.
- 15. The method of claim 10, further comprising conveying the processed data to a vehicle engine control processor.
- 16. The method of claim 10, wherein the user interface system includes at least one of a dashboard display module, a heads-up display module, a speech recognition system module, and an audio interface module.